Title (en)

ROTARY CONTROL VALVE HAVING A CLAMPED VALVE SEAT

Title (de)

DREHSCHIEBER MIT EINEM GEKLEMMTEN VENTILSITZ

Title (fr)

VANNE DE RÉGULATION ROTATIVE PRÉSENTANT UN SIÈGE DE VANNE SERRÉ

Publication

EP 3446007 A1 20190227 (EN)

Application

EP 17716691 A 20170324

Priority

- US 201662325302 P 20160420
- US 201615143107 A 20160429
- US 2017024020 W 20170324

Abstract (en)

[origin: US2017307087A1] A rotary valve is provided for use in highly corrosive and abrasive applications. The valve includes a valve body and an adapter coupled to one end of the valve body, thereby defining an inlet, an outlet, and a valve interior in fluid communication with the inlet and the outlet. The valve also includes a floating ball element pivotably mounted in the valve interior via a valve stem to control fluid flow through the valve, a first valve seat movably disposed in the valve interior, and a second valve seat removably disposed in the valve interior. The first valve seat is biased toward the ball element to sealingly engage a first portion of the ball element. The second valve seat is configured to sealingly engage a second portion of the ball element and is clamped between a surface of the valve body and a surface of the adapter.

IPC 8 full level

F16K 5/06 (2006.01)

CPC (source: CN EP RU US)

F16K 5/0636 (2013.01 - US); **F16K 5/0642** (2013.01 - US); **F16K 5/0663** (2013.01 - CN); **F16K 5/0689** (2013.01 - EP RU US); **F16K 5/08** (2013.01 - CN); **F16K 5/20** (2013.01 - CN RU); Y02P 10/20 (2015.11 - EP)

Citation (search report)

See references of WO 2017184296A1

Designated contracting state (EPC)

AL AT BE BG CH CY CZ DE DK EE ES FI FR GB GR HR HU IE IS IT LI LT LU LV MC MK MT NL NO PL PT RO RS SE SI SK SM TR

Designated extension state (EPC)

BA ME

DOCDB simple family (publication)

US 10914387 B2 20210209; **US 2017307087 A1 20171026**; CA 3021165 A1 20171026; CN 107314122 A 20171103; CN 107314122 B 20210608; CN 206958296 U 20180202; EP 3446007 A1 20190227; EP 3446007 B1 20210616; RU 2018137723 A 20200520; RU 2018137723 A3 20200709; RU 2747700 C2 20210512; WO 2017184296 A1 20171026

DOCDB simple family (application)

US 201615143107 A 20160429; CA 3021165 A 20170324; CN 201710261336 A 20170420; CN 201720423883 U 20170420; EP 17716691 A 20170324; RU 2018137723 A 20170324; US 2017024020 W 20170324